



# SpotLight™

World's First Cardiovascular  
and Thoracic CT Scanner



[www.arineta.com](http://www.arineta.com)





## **Our Vision**

**Dedicated to growing cardio-thoracic CT as the front-line non-invasive test for diagnosing, therapy planning and monitoring of Cardiovascular and Thoracic disease — the leading causes of death and healthcare costs worldwide.**

Nestled within the historic confines of Caesarea, an ancient port city, Arineta, an innovative Israeli company, is wholly dedicated to the advancement of cardiovascular imaging solutions through state-of-the-art technology. Situated within the esteemed Caesarea Industrial Park in Israel, the company draws upon a rich legacy of medical imaging innovation that extends back to the 1970s.

Arineta's remarkable team comprises a diverse group of highly skilled scientists, engineers, and accomplished business executives, all with an impressive track record in developing and commercializing state-of-the-art medical devices. Their collective expertise and unwavering commitment to excellence have propelled Arineta to the forefront of the industry.





Arineta's flagship product SpotLight and SpotLight Duo, stands as a testament to their ingenuity. As the world's first dedicated single-heartbeat, whole heart cardio-thoracic CT scanner, SpotLight incorporates the company's proprietary Stereo CT technology, revolutionizing cardiac imaging. This groundbreaking product has garnered widespread acclaim and global reach.

Arineta continues to drive innovation forward, building upon the legacy of its scientists, who are pioneers of the multi-slice spiral CT technology and have contributed significantly to various key advancements in the field. With an unwavering commitment to delivering state-of-the-art medical devices, Arineta is reshaping the future of cardio-thoracic imaging, ensuring improved patient care and empowering healthcare professionals worldwide.

# SpotLight

The only CT designed specifically for cardio-thoracic exams

Just as evidence points to cardiac CT for first-line decision-making, it also points to **SpotLight** and **SpotLight Duo** as the preferred tools to implement it. **SpotLight** was designed specifically for cardio-thoracic use and to easily integrate into and optimize any cardiovascular and thoracic workflow.

## SpotLight's unique specifications include:

- **Whole heart, one beat exam** – enables leading image quality even in challenging patients.
- **Fast gantry rotation** – for imaging high and variable heart-rate patients and reducing motion artifacts.
- **High BMI patients** – Scanner can support large patients with effective tube power 139kW<sup>1</sup> and a table weight limit up to 227 kg (500 lb).
- **Focused Field Of View** – The scanner is optimized for cardiovascular applications. Also, interpretation is efficient and readable for cardiac-only professionals.
- **Compact gantry and small foot print** – to install the scanner even in small rooms.
- **Functional Insights** – with CT capabilities and FFR-CT.



## SpotLight Highlights

SpotLight is FDA 510(k) cleared for cardio-thoracic imaging, highlighting its unique, dedicated design and proven clinical value.

High resolution

▼  
0.24 mm

One beat whole heart coverage

▼  
140 mm  
560 slices

CV applications

▼  
Coronaries, TAVR,  
Vascular, FFR-CT

DLIR / MBAF2

▼  
Low Dose

Fast temporal resolution

▼  
120 msec temporal resolution

Cardiac focused workflow

▼  
Productivity



# SpotLight: Revolutionizing Cardio-Thoracic Care with Smart and Strategic Solutions for Dedicated Doctors.



- **Unnecessary invasive procedures avoided** – When CCTA is used with Fractional Flow Reserve (FFR)<sup>2</sup>, 60% of angiograms are deferred.
- **Stress minimized** – Compact size makes the scanner less intimidating than a full-size scanner, plus patients leave the appointment knowing more about their condition. Therefore, fear of the unknown is reduced.
- **Satisfaction boosted** – Patients are likely to be more satisfied with the physician, the facility and the experience when they receive answers quickly.



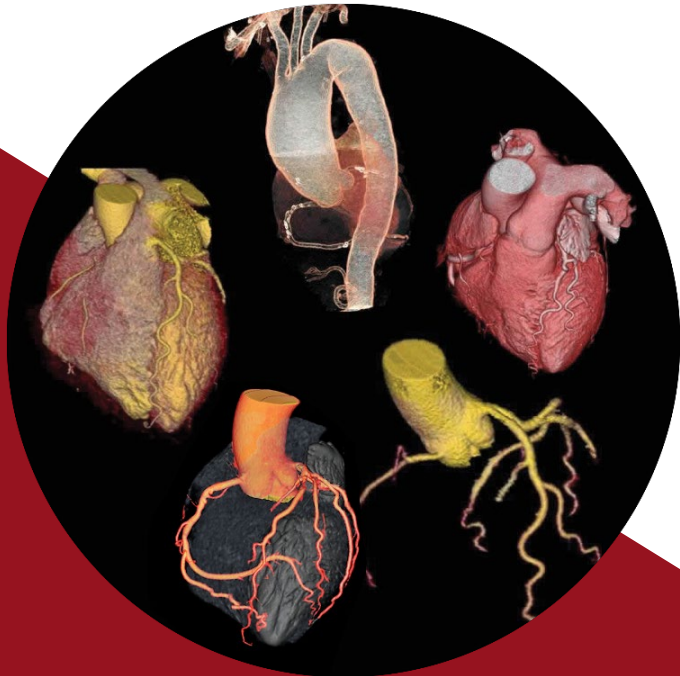
- **Compliance increased** – Combats attendance drop-off that occurs when multiple appointments are needed for a diagnosis.
- **Adverse events reduced** – By getting patients on treatment plans faster, the likelihood of heart events happening before treatment begins is greatly lessened.

1. Equivalent value compared to a conventional scanner geometry.
2. FFR CT is sold separately.

\*Thoracic claims, WFOV (SL Duo), DLIR and ECOV are limited to the US only.



# SpotLight **Pay Per Use** Program



Despite multiple studies affirming the superior diagnostic accuracy of CT angiography compared to myocardial perfusion imaging, Cardiac CT has yet to become the preferred diagnostic test among US healthcare providers.<sup>1,2</sup> How can we increase accessibility to quality care while also minimizing the costs to deliver that care?

Enhanced care empowered  
by a dedicated Cardio-  
Thoracic CT scanner at  
**NO UPFRONT COST**

Arineta, the pioneering force behind the groundbreaking **SpotLight** — the world's first dedicated Cardiovascular and Thoracic CT scanner introduces this transformative technology to healthcare providers in the United States at no upfront equipment cost. This allows healthcare providers and administrators to explore firsthand the benefits of a CT-first patient care pathway with minimal capital expenditure.





# Pay Per Use Program Details

- No upfront CT scanner cost
- Arineta provides the scanner, injector, post-processing platform, workstation, installation, and CT application training
- Service is included
- User responsible for site readiness including power requirement, manpower, and operational costs

## Benefits

Cardiac CT angiography yields 41% lower rate of death or nonfatal myocardial infarction vs standard care, including stress testing<sup>3</sup>

Excellent image quality, including high and unstable heart rates<sup>4</sup>

Breakeven in as few as six patients per day<sup>5</sup>

FFR-CT acceptance rate up to 100%<sup>4</sup>

### References:

<sup>1</sup> Neglia D, Rovai D, Caselli C, et al. Detection of significant coronary artery disease by noninvasive anatomical and functional imaging. *Circ Cardiovasc imaging* 2015; 8(5): e002179.

<sup>2</sup> Driessen RS, Danad I, Stuijzand WJ, et al. Comparison of coronary computed tomography angiography, fractional flow reserve, and perfusion imaging for ischemia diagnosis. *J Am CollCardiol* 2019; 73: 161-73.

<sup>3</sup> Newby DE, Adamson PD, Berry C, et al. Coronary CT angiography and 5-year risk of myocardial infarction. *N Engl J Med* 2018; 379: 924-33.

<sup>4</sup> Maggiore P, Huang AL, Anastasius M, et al. A comparative assessment of the performance of a state-of-the-art small footprint dedicated cardiovascular CT scanner. *J Cardio CT* 2021; 15(1): 85-87.

<sup>5</sup> Data on file with Arineta





# Mobile SpotLight

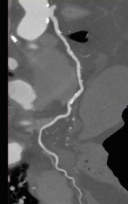
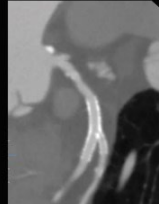
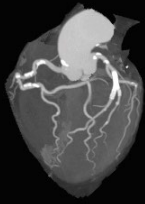
The Highest Performance  
Cardiovascular and  
Thoracic Mobile CT Scanner



High spatial and temporal resolution  
delivers excellent stent visualization

Scan type  
Rotation time, s  
BMI  
Slice, mm  
kV  
mA  
Contrast ml  
mg/ml  
Kernel  
CTDIvol, mGy  
DLP, mGy·cm  
Effective dose mSv  
k

Axial  
0.24  
27.8  
0.5  
120  
500  
75  
350  
Standard  
12.2  
170.9  
2.4  
0.014



**Arineta**  
CARDIO IMAGING

Images courtesy of: SOUTH TAMPA CARDIOLOGY, USA

## Technical Specs

- 0.24sec rot speed, 120msec temporal resolution
- 14cm whole heart coverage, 560 slices
- High res: 0.5mm detector, HD mode, Stereo CT
- 139kW effective power for SNR
- Novel Stereo CT design

## Clinical Performance

- CCTA: 1-beat, whole heart
- High BPM: arrhythmia mgmt, motion correction
- Calcium scoring
- Lung cancer + Thoracic
- CTA vascular + Interventional planning

## Unique Features of the Mobile SpotLight

- Wheelchair accessible
- Patient prep and waiting area
- Restroom (*Optional*)
- The bus configuration allows the technologist to also serve as the driver, eliminating the requirement to hire an additional driver.



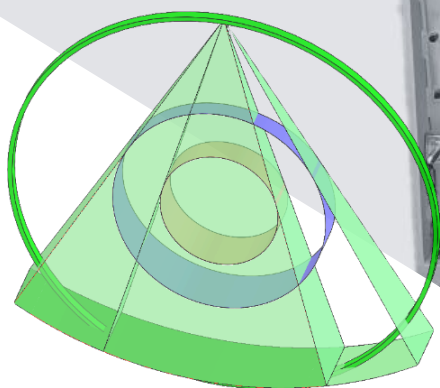
EXCEPTIONAL  
CARDIO-THORACIC  
CARE  
**ACCESSIBLE**  
FOR ALL

# Innovation and unique **Stereo CT Technology**

Arineta's innovative Stereo CT technology consists of two rapidly alternating sources of radiation that create dual overlapping beams. The result is a focused field of view with high resolution, no cone artifacts and minimal dosage. Combined with high rotation speed of 0.24 sec per rotation, it provides a sharp, motionless CT image of the heart in one heartbeat.

## **Stereo CT® Technology**

Unlike conventional single- and dual-source CT scanners, SpotLight uses dual overlapping cone beams to achieve 140 mm coverage. Stereoscopic imaging provides a more complete data set than mono-beam CT, for better, artifact-free images. Stereoscopic imaging also optimizes the scanner's dose utilization

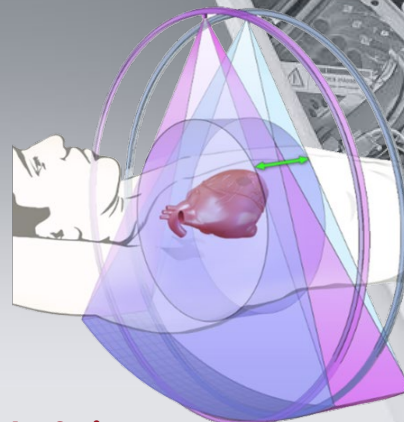


### **Key elements of the technology are:**

- Dual, specially designed x-ray tubes
- High-voltage generator capable of ultra-fast x-ray beam switching between the two sources
- SpotLight detector for low-noise, high-rate acquisition
- Unique Stereo CT reconstruction algorithm for optimal integration of data from the two sources into a single image set

### **Focused Field-of-view**

SpotLight uses Focused Field-of-View technology for high quality imaging of an area-of-interest, while reducing the radiation dose in peripheral anatomies outside the area-of-interest (shown for a single x-ray source). Radiation outside the field-of-view (user-selected 250 mm or 160 mm diameter) is attenuated by a factor of 10 – 20 (depending on kVp). (Actual dose saving depends on a combination of kVp, selected FOV diameter, and patient size.)



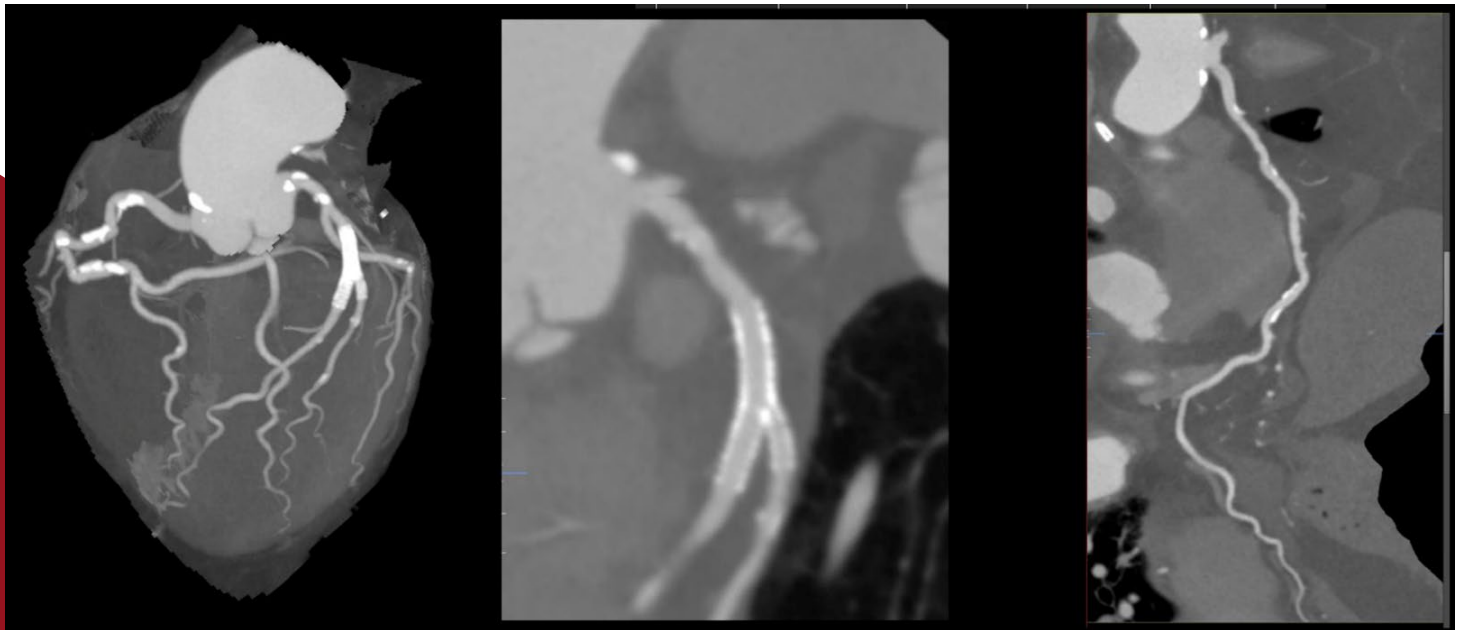




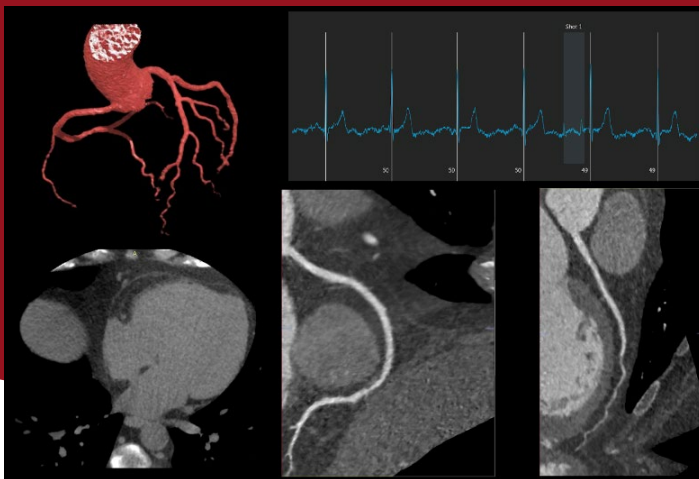


# SpotLight Image Gallery

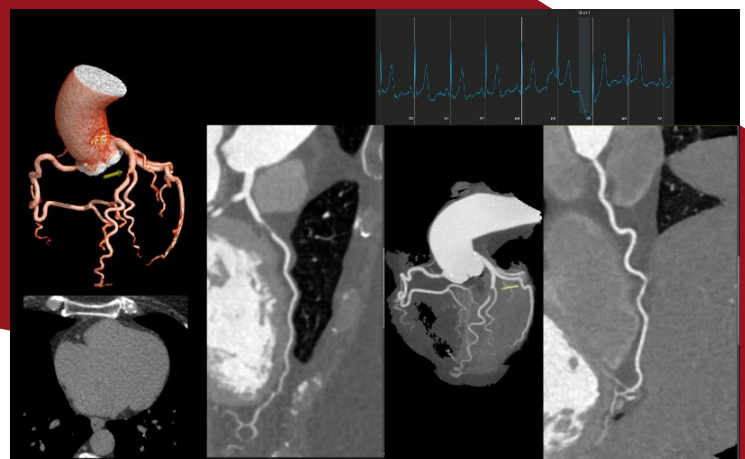
For top-tier cardiovascular care, SpotLight is the smart choice. With this dedicated cardiovascular scanner, healthcare professionals can conduct crucial heart assessments promptly and precisely. The versatile software in SpotLight supports key cardiac exams, facilitating tailored treatment plans.



High spatial and temporal resolution delivers excellent stent visualization

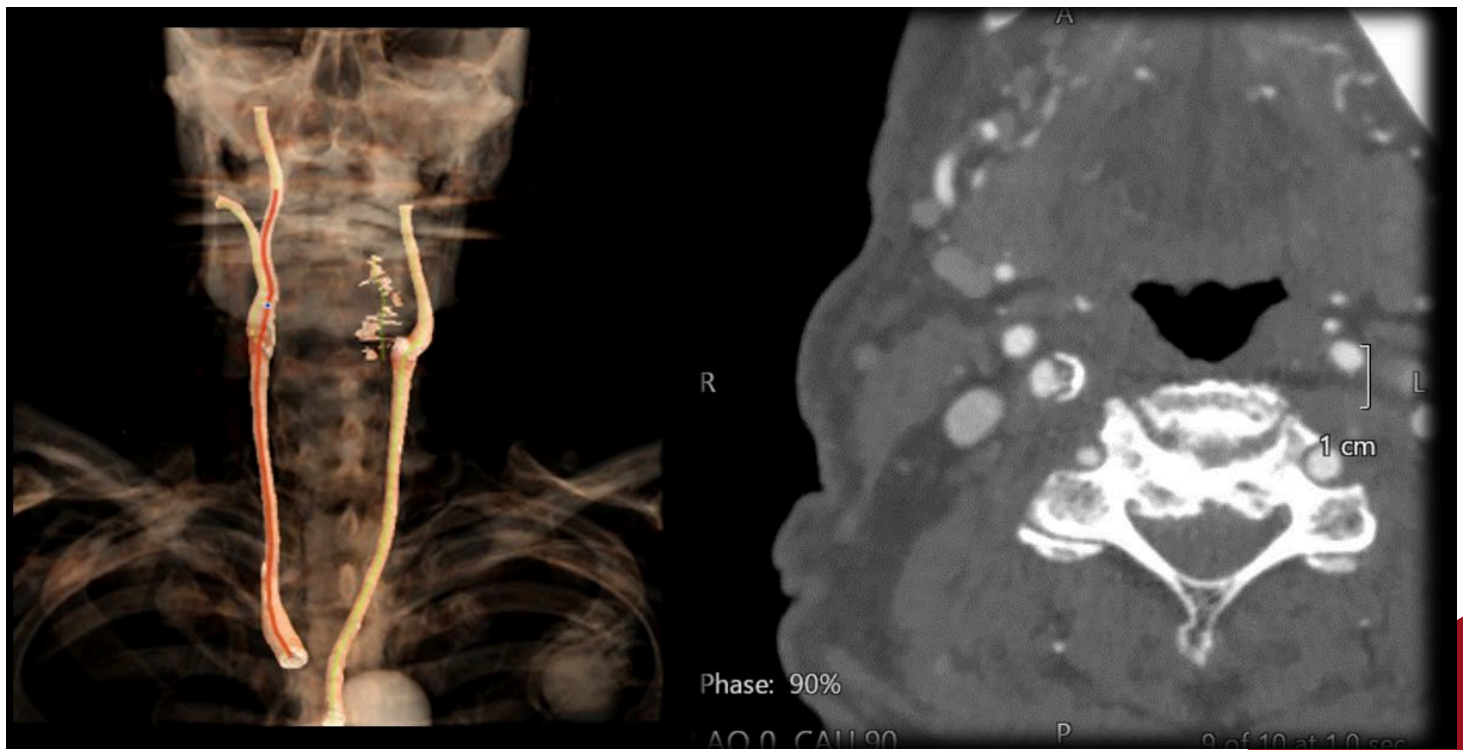


BMI 55 with good quality and <4 mSv dose

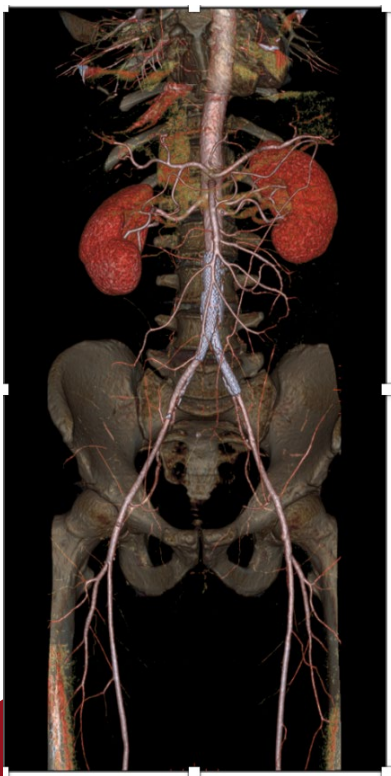


Excellent image quality with 0.82 Sv scan

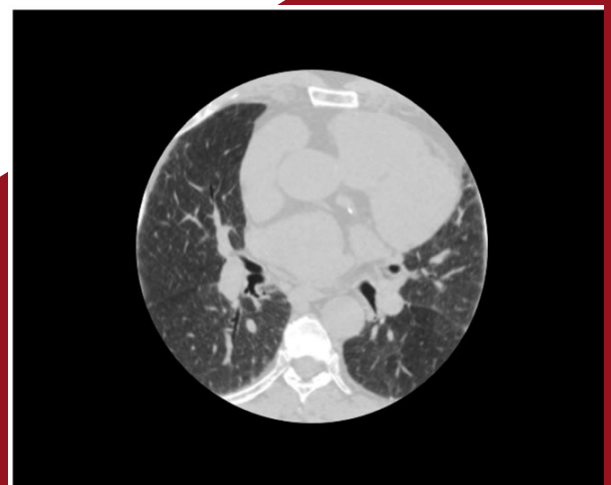
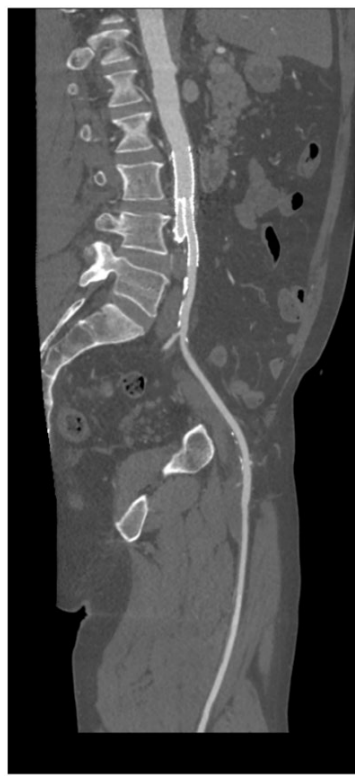




Good visualization of complex atheroma head and neck lesions



CAP CTA



**Cardiac Field of View**

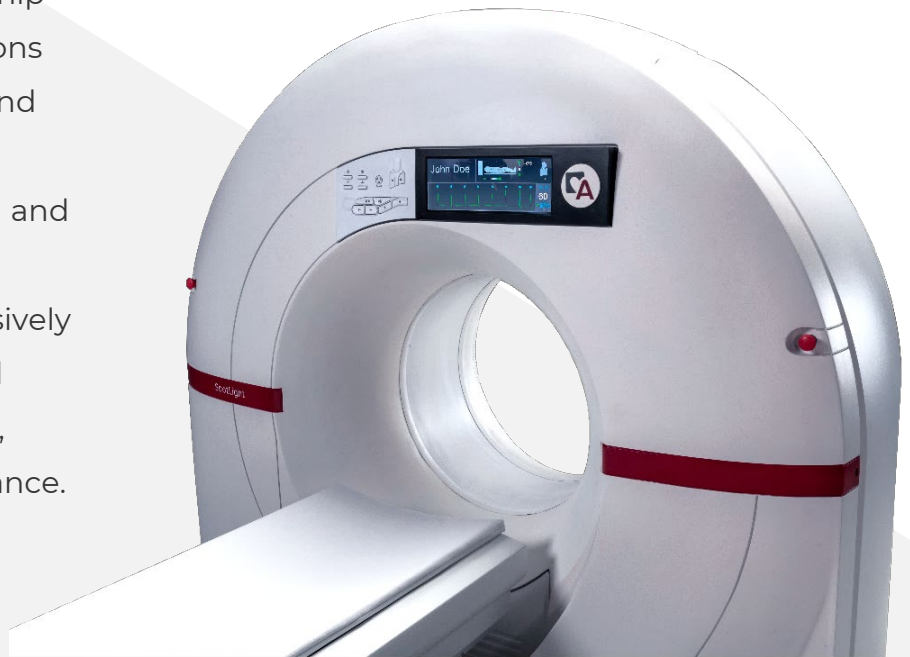


**Thoracic Field of View**

Lung imaging – Extended FOV

# Nationwide Equipment Service and Support Solutions

Arineta has forged a strategic partnership with Catalyst MedTech Imaging Solutions to establish a comprehensive end-to-end service and support solution for your SpotLight scanner. The highly qualified and certified Field Service Engineers (FSE) within Catalyst MedTech's team, exclusively dedicated to the SpotLight system, will seamlessly integrate into your practice, ensuring optimal operational performance.



Our **Catalyst MedTech team** will provide invaluable assistance with:

1. Efficient logistics management for systems and spare parts.
2. Precise system installation services.
3. Comprehensive warranty and contract service coverage.
4. Expert site planning support, guaranteeing the optimal placement and functionality of your SpotLight scanner.

## Premium Service

Catalyst MedTech is the exclusive premium provider for Arineta scanners

## On-hand Expertise

Catalyst MedTech provides 24/7 call center support with  
<1 hour phone response times

## Certified Expertise

Catalyst MedTech services over 2,000 scanners annually and is an ISO-certified service provider

## Parts Availability

Catalyst MedTech maintains over 100,000 sq ft of space for parts and supplies

Annual Service Agreements | Time & Materials Preventative Maintenance |  
Equipment Installation Equipment Relocation | Applications Support





## Nationwide Solutions

We offer a variety of service and support agreements that maximize the life and performance of your equipment. We provide industry leading on-site response time with 24/7 support available.

**1500+**

COMBINED YEARS OF  
INDUSTRY EXPERIENCE

**450+**

DEDICATED  
EMPLOYEES

**70+**

CERTIFIED  
ENGINEERS

**3000+**

CUSTOMERS  
SERVED



## Equipment & Service

We provide everything from equipment, including the premiere solid- state mobile cardiac system, to hot labs and treadmills with flexible lease and purchase options. We also make certain your equipment is serviced to maintain its peak clinical performance.



## Technologists & Technicians

Our team of certified and experienced professionals become an integral part of your practice. You will see consistency on each day of service that results in better workflow, images, and patient care.



## Protection For Your Investment

We value responsiveness so we offer nationwide service and support that includes quick and secure remote access.

**24/7**

SUPPORT  
HOTLINE

**< 1 HR**

PHONE  
RESPONSE

**< 24 HR**

ON-SITE  
RESPONSE

**98%**

UPTIME  
GUARANTEE

## FSE Experience

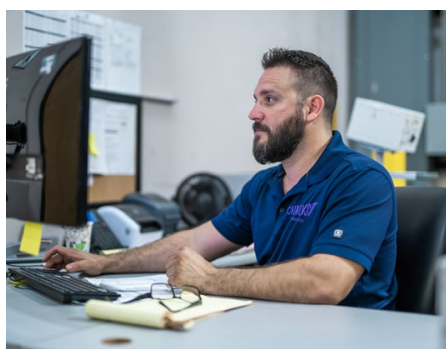
Catalyst MedTech's Field Service Engineers (FSE) each average over 20 years field experience.

## FSE Training

With over classes offered yearly at the Centers of Excellence, Catalyst MedTech's FSEs are continually expanding knowledge and skillsets.

## Repair Escalation

With a written set of ISO-certified instructions, Catalyst MedTech has an escalation process to ensure proper visibility of customer issues.





# GET IN TOUCH

Arineta Ltd.  
15 Halamish Street  
P.O Box 3057,  
North Industrial Park  
Caesarea 3079827  
Israel

✉ [sales@arineta.com](mailto:sales@arineta.com)

✉ [office@arineta.com](mailto:office@arineta.com)



[www.arineta.com](http://www.arineta.com)

MKT-SL1-0004EN / Rev 2.00